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APPLICANT : KAWAHARA HIROHITO;

INVENTOR : KAWAHARA HIROHITO;

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TITLE : SOLID OXIDIZING AGENT CONTAINING OZONE AND CHLORINE

ABSTRACT : PURPOSE: To improve the persistence of oxidizing power by mixing ice obtd. from water contg. O<sub>3</sub> and Cl<sub>2</sub> with dry ice.

CONSTITUTION: Ice contg. O<sub>3</sub> and Cl<sub>2</sub> is prep'd. by freezing water contg. specified amts. of O<sub>3</sub> and Cl<sub>2</sub> or by separately preparing water contg. O<sub>3</sub> and water contg. Cl<sub>2</sub> and freezing them. The prep'd. ice is powdered and mixed with powdered dry ice in a specified ratio to give a powdered oxidizing agent, which is shaped into a desired shape to give a solid oxidizing agent. A strong oxidizing atmosphere at from room temp. to about -70°C is formed by filling a thermally insulated box having a heat transfer pipe with the powdered and/or solid oxidizing agent, tightly sealing the box, introducing a specified heating medium into the pipe to adjust the subliming rate of the agent, and thereby releasing a gas mixture comprising O<sub>3</sub>, Cl<sub>2</sub>, CO<sub>2</sub> and water vapor while controlling the amt. and concn. of the mixture released according to the application.

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